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Mobile Learning

21st Century Learning Lab Webinar
October 2010

Host: John Keller, Director of Learning
Technologies, Indiana Department of Education

Agenda

- Introduction to the 21st Century Learning Lab
- Introduction to this month's topic
- Guest presentations
- Discussion



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21st Century Learning Lab

- Monthly topics in educational technology.
- Website:
<https://pod.doe.in.gov/groups/21stcenturylearninglab/>
- Blog/Podcast Stream:
<https://pod.doe.in.gov/groups/21stcenturylearninglab/blog/>
- Staff Blogs ([Edtechcrossroads](#))
- Next topics:
 - Technology standards for teachers and students (November)
 - Educational Technology in the science curriculum (December)
 - Online and educational games (January)



Mobile Technology

- More and more individuals are connected
- Devices are cheaper and more powerful
- Applications are being designed for mobile use
- Mobile devices are making inroads in classrooms
- Many challenges and opportunities for schools



Mobile Technology

“The range and number of educational applications for mobiles are growing at a rapid pace, yet their use in schools is limited — more often constrained by policy than by the capabilities of the devices they run on.”

Horizon Report: K-12 Edition

Time-to-Adoption: Two to three years



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Mobile Technology

- 2010 Horizon Report
 - <http://wp.nmc.org/horizon-k12-2010/>
- Speak-up Survey (un-tethered learning)
 - <http://media.doe.in.gov/lc/2010-10-12-SpeakUp.html>
- FCC/E-rate Pilot
 - E-rate Deployed Ubiquitously (EDU) 2011 Pilot Program



Today's Participants

- Avon Community School Corporation
 - Michael Taylor
- Garrett-Keyser-Butler School Corporation
 - Greg Myers
- Lebanon Community School Corporation
 - Byron Ernest



Avon Community School Corporation

Michael Taylor – Director of Technology



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What we did

- Personally owned laptops on our network
- 12th Grade implementation this year
- Stoneware (private cloud) is the only new app
- 2 hours of training for each of 600 students
- 12 hours of PD for each faculty member
- Cost – Rental fee pays for 85% of laptop over 4 years of use
- Students can opt to rent laptops that can go home with them



How we did it

- Policy Change - Allow personally owned devices on our network
- Rollout/deployment plan – Extensive and Comprehensive.
- Teacher/parent/student communication – you cannot say too much and you cannot cut off questions.



Our results

- Stakeholder feedback – Initial is very positive
- Preliminary student learning, engagement, user acceptance data – The atmosphere of the building is more like a college.
- What did you learn?
 - Printing, software and wireless
- What advice do you have?
 - It is inevitable, plan to make it happen



What's next?

- Expansion – more grade levels & smaller form factors (netbooks & handhelds)
- Funding – sustainability is the biggest issue
- Other – Use student technicians



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JE Ober Elementary School Garrett-Keyser-Butler School Corp.

Greg Myers – Principal, JE Ober Elementary



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What we did

- Ipad
- 3rd and 4th Grades
- Nettekker / Indiana's State Standards
- Before school tech training is offered 2x month
- Approximately \$500.00 per device
- Devices stay at school



How we did it

- Each 3rd and 4th grade teacher was given an ipad in the spring of 2010 and students were given theirs in the fall of 2010
- Community learned of the initiative through public board meetings



Our results

- Students absolutely love them!
- I have never seen student engagement like I have in those grades this year.
- Put the devices in the hands of the students!



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What's next?

We are currently planning to put ipads in use at every grade level (K-4)



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Lebanon Community School Corporation

Byron Ernest, Department Head –Agriculture Science

2010 Indiana Teacher of the Year

2010 Christopher Columbus Fellowship Foundation

Outstanding Agriscience Educator

SMART Exemplary Educator



What we did

- MacBooks, iPod Touches, & Huddleboards
- SWELL Classroom – SMART Worldwide Effective Learning Lab (11-12 Agriscience Students)
 - Advanced Life Science – Animals
 - Purdue Dual Credit with Animal Science 102
 - Advanced Life Science – Plants and Soils
 - Purdue Dual Credit with Botany 210
 - Advanced Life Science – Foods
 - Purdue Dual Credit with Food Science 161

IPOD TOUCHES

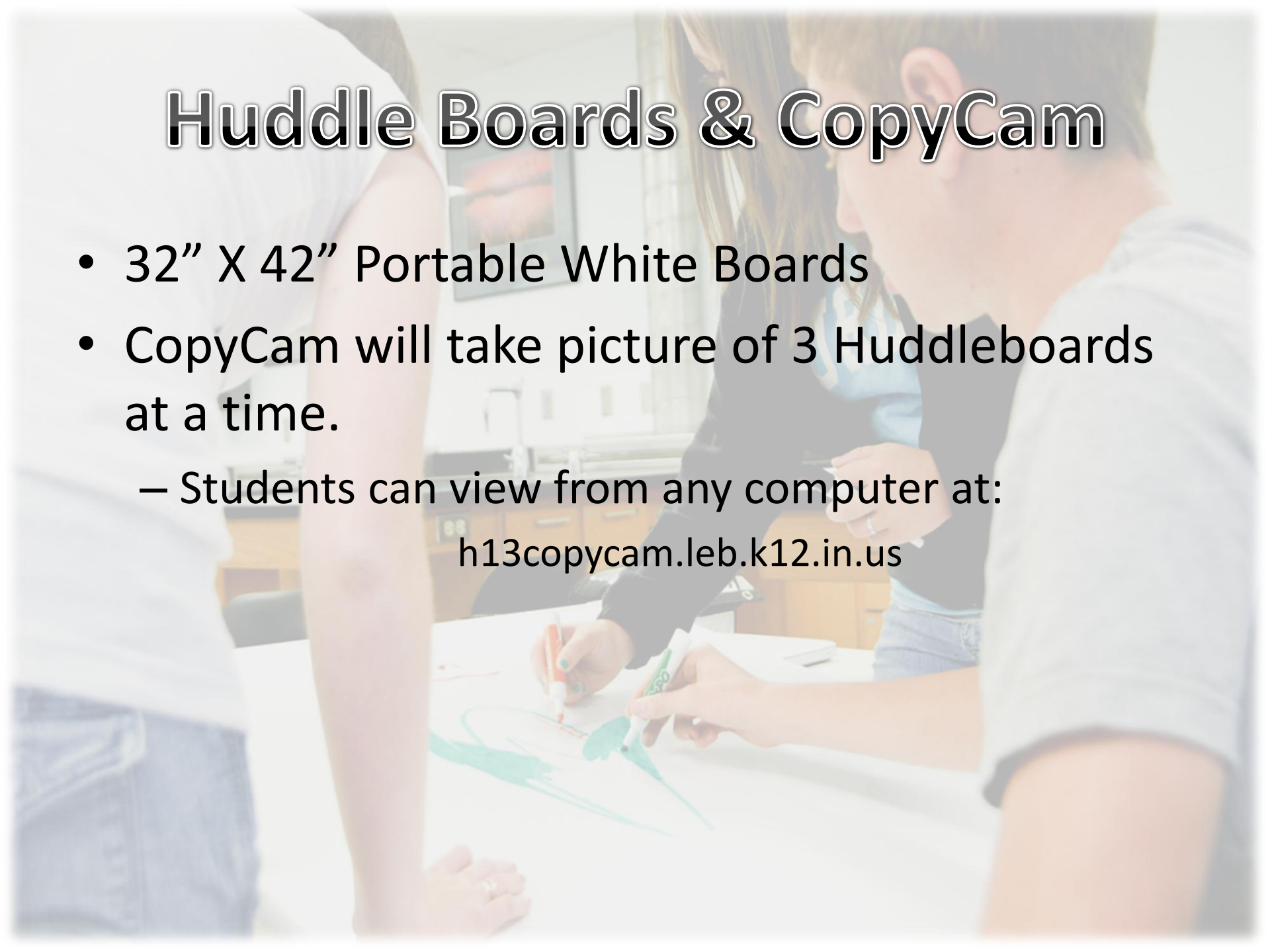
A man and a young boy are looking at a large interactive screen. The man is wearing a red and black plaid shirt and is pointing at the screen. The boy is wearing a white hoodie and is looking at the screen. The screen displays a grid of icons, including a book, a magnifying glass, and a person. The background is a bright, modern interior with white walls and a large window.

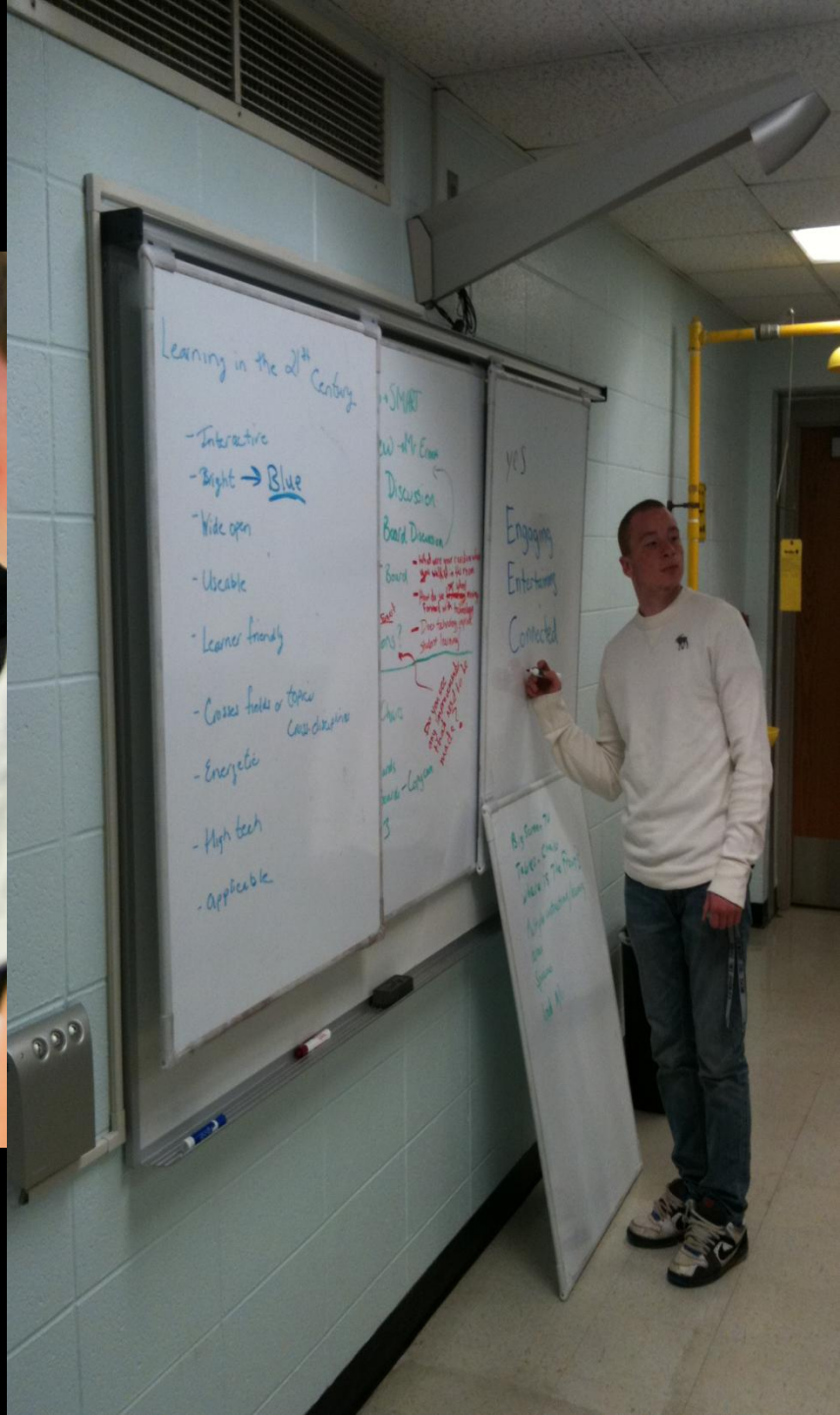
- Article Reads (USA Today App, downloads from other sources)
- Note-taking
- Data collection from research projects
- Researching subject matter
- Calculator, stopwatch, et cetera
- Videos & Podcasts



Huddle Boards & CopyCam

- 32" X 42" Portable White Boards
- CopyCam will take picture of 3 Huddleboards at a time.
 - Students can view from any computer at:
h13copycam.leb.k12.in.us





What We Did

- TALL – Tiger Academy of Lessons Learned
 - Totally Teacher Driven Professional Development
 - No Hierarchy
 - Groups are Chosen by Teachers and Can Come and Go as Needed
 - Presently We Have These Technology Groups:
 - Basic Technology
 - Mimio
 - Web 2.0 for Teacher Websites
 - Mobile learning



What We Did

- Cost
 - ipods: $\$229 \times 30 = \$6,870$
 - MC540LL/A iPod touch, 8GB
 - MacBooks: $\$1,100 \times 30 = \$33,000$
 - MC374LL/A MacBook Pro (13.3" LED/2.4GHz/4GB DDR3/250GB/SuperDrive/iSight)
 - Apple iPod Learning Lab: \$ 3,000
 - CopyCam: \$3,248
 - Huddleboards: \$225/5
- Do devices go home or stay at school? STAY

HOW WE DID IT

The SWELL Classroom has been approached as an action research project. Because of the transparency of the websites and wikis, student work is accessible by parents and community partners.

A woman with blonde hair, wearing a white lab coat, is looking down at a smartphone in her hands. She is standing next to a large potted plant with long green leaves. The background is a brick wall. The scene is brightly lit, suggesting an indoor or well-lit outdoor environment.

Our results

It cannot be stressed enough that the digital revolution is not about the teacher using technology, but enabling the student through their use of technology. Even though this author's school district grapples with the same issues of funding and policies, we are still moving forward to put in place the technology that provides our students the digital content and open resources they need and deserve.

What's next?

Through the SWELL Classroom we are researching innovative networking and information technology solutions to student learning. By proceeding in stages, Lebanon will be able to develop staff, so first round teachers will be able provide support and training, and share lessons. The SWELL Classroom allows for designing each lesson to meet the individual student's needs, and then deliver that lesson in such a way that is effective for that particular child.

Questions



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Continue the Conversation

- Technology Integration Ideas for MacBook and iPod Touch (Learning Connection Community)
 - <https://learningconnection.doe.in.gov/UserGroup/GroupDetail.aspx?gid=120>



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